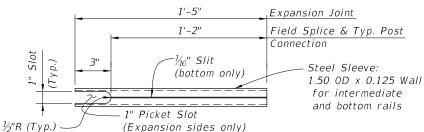


## ROUND RAILS - TOP RAIL OR HANDRAIL

- \*  $\frac{1}{4}$ " Ø x  $\frac{3}{4}$ " Pan Head Stainless Steel (Type 316 or 18–8 Alloy) Set Screws along outside face of railing. Set screws must be set flush against the rail surface. A  $\frac{3}{4}$ " Ø plug weld may be substituted for the two set screws at expansion joints.
- \*\* Embedded length may be 4" for plug welded connection.
- \*\*\* Increase handrail sleeve embedment to 8" for Expansion Joint openings greater than 2".

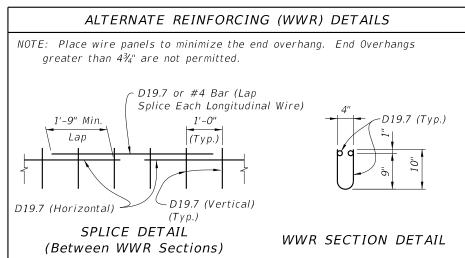
sharp edges (Typ.)

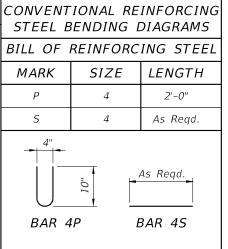
\*\*\*\* Expansion Joint opening shall match the clear opening in the deck joint but not greater than 3".



INTERMEDIATE OR BOTTOM RAIL - STEEL SLEEVE DETAIL (Bottom Side Shown)

## = DETAIL "B" EXPANSION JOINT (FIELD SPLICE SIMILAR) =





#### CURB REINFORCING STEEL NOTES:

ESTIMATED CONCRETE CURB

QUANTITIES (SCHEME 2)

UNIT

CY/LF

LB/LF

ITEM

Reinforcing Steel

Concrete

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. The reinforcement for the curb on a retaining wall shall be the same as detailed for an 8" deck.
- 3. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 4. Bars 4S may be continuous or spliced at the construction joints. Bar splices for Bars 4S shall be a minimum of 1'-8".

QUANTITY

0.0124

4.01

5. Deformed Welded Wire Reinforcement (WWR) meeting the requirements of Specification Section 931 may be used in lieu of all Bars 4P and 4S.

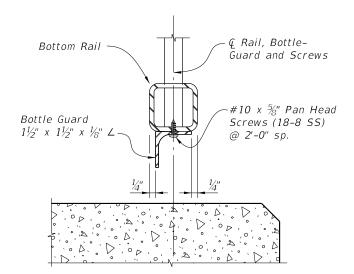
Pre-cured Silicone Sealant (4" wide)	6" Min.	— ¾" Chamfer (Typ.)
over.	<u> </u>	
ents <	2"	
end 45.		J

DETAIL "A" - SECTION AT INTERMEDIATE OPEN JOINT

#### INTERMEDIATE JOINT SEAL NOTE:

At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.

# SCHEME 2 - CONCRETE CURB DETAILS =

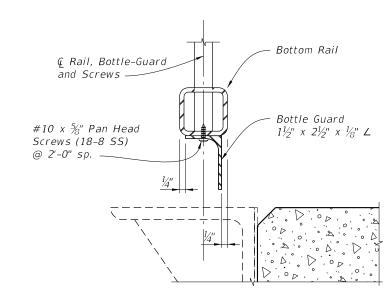


TYPICAL SECTION THROUGH BOTTOM RAIL (Post Not Shown for Clarity)

= SCHEME 1 - BOTTLE GUARD DETAIL =

### CROSS REFERENCE:

See Sheet 1 for Bridge Railing Notes.



TYPICAL SECTION THROUGH BOTTOM RAIL (Post Not Shown for Clarity)

= SCHEME 3 - BOTTLE GUARD DETAIL ===

LAST **REVISION** 11/01/16

DESCRIPTION:



FY 2022-23 STANDARD PLANS

BRIDGE PEDESTRIAN/BICYCLE RAILING

INDEX

SHEET

515-051 3 of 3